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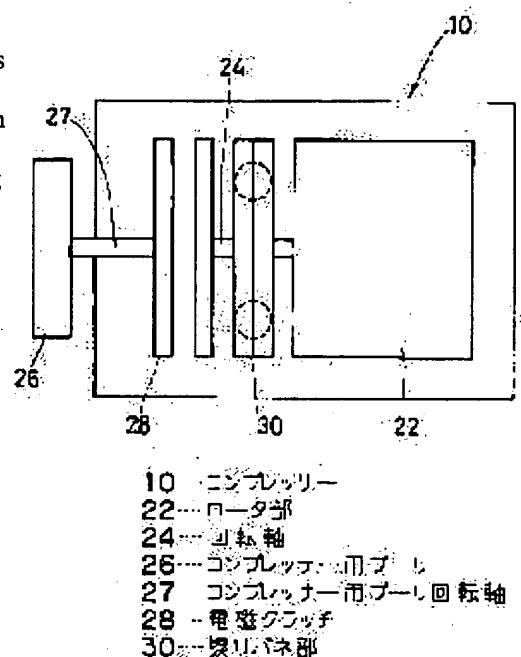
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(54) ROLLING VIBRATION REDUCER FOR INTERNAL COMBUSTION ENGINE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a rolling vibration reducer for an internal combustion engine, offering rolling vibration reducing effect in specified operating conditions even if the inertial mass of a main flywheel system is changed.

SOLUTION: A rotor portion 22 of a compressor 10 for an air-conditioner, constituting a main flywheel system, is connected to a compressor pulley 26 rotationally driven by an accessory driving belt via an electromagnetic clutch 28 in an approachable/separable manner. A rotating shaft 24 of the rotor portion 22 is connected to the electromagnetic clutch 28 and provided with a torsional spring portion 30 of which spring constant is operated along the direction of the torsion of the rotating shaft 24. In this way, in rotationally driving the rotor portion 22, with the operation of the spring constant of the torsional spring portion 30, the antiresonant frequencies of the vibration of the main flywheel system and the vibration of a sub-flywheel are kept to approximately agree with any of the frequency natural number/2 times of a rotational frequency at the preset rotating speed of a crank shaft.



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